



ANNUAL REPORT
OF THE
Department of Public Works
OF THE
PROVINCE OF ALBERTA
1953-54

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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1955

Edmonton, September 10, 1954

To His Honour,

J. J. BOWLEN,

Lieutenant Governor of the
Province of Alberta.

Sir,

The undersigned has the honour to submit herewith
the Report of the Department of Public Works for the year
ended March 31, 1954.

Respectfully submitted,

A. J. HOOKE,

Minister of Public Works

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF PUBLIC WORKS

REPORT
OF THE
DEPUTY MINISTER OF PUBLIC WORKS
FOR THE FISCAL YEAR ENDED MARCH 31st, 1954

To: Honourable A. J. Hooke,
Minister,
Department of Public Works.

Sir,

I have the honour to submit herewith my initial report as Deputy Minister of Public Works, concerning the activities of the Department of Public Works for the fiscal year ended March 31st, 1954.

This Department has just completed the busiest year in its history. New and larger quarters have been constructed for, and occupied by, the Department of Public Works. This has allowed the various divisions to be housed in one main building, thereby increasing the efficiency and effectiveness of the Department. While no building dominated the fiscal year, there have been several which may be classified as major projects.

The Red Cross Blood Transfusion Buildings have been completed in both Calgary and Edmonton. These buildings have set a new design standard for operations of this type.

The Rosehaven Home at Camrose has been enlarged by a cottage type dormitory. This is the first of several and plans have been made for the artistic and efficient layout for this entire project.

At Oliver the Administration Building has been completed and this fine structure of native motif blends most harmoniously with the existing landscaping. Because of a large building programme at this site it has been necessary to increase the capacity of the Power Plant. A 625 K.V.A. engine generator unit has been installed, together with switchboard and necessary piping. This has raised the generating capacity to 2,000 K.V.A.

Another Provincial Building is being erected in the town of Stettler to serve the adjacent area.

The Provincial Mental Hospital at Ponoka has also gone through a considerable expansion period, and therefore two 625 K.V.A. engine generator units have been purchased for this Plant.

The new Power Plant at the Provincial Gaol, Fort Saskatchewan, has now been completed and will be in operation in the summer months.

The Department has had considerable expansion in both personnel and space to aid in carrying on an enlarged programme. This has necessitated considerable reorganization within the Department of Public Works, and I am most pleased to report that this has been completed.

Further details of the activities of the Department of Public Works are attached in the following reports.

Respectfully submitted,
ARTHUR ARNOLD,
Deputy Minister of Public Works

DEPARTMENT OF PUBLIC WORKS

Report for Fiscal Year ended March 31st, 1954

The Department of Public Works is responsible for servicing and maintaining all provincial public buildings in the Province, and for planning, designing and supervising the construction of all new buildings. In addition to a very large maintenance programme the following major projects were carried out during the year:

Belmont

An Institution for the treatment of alcoholics has been erected adjacent to the City of Edmonton in the Belmont area. At the present time there are temporary facilities for the treatment of 50 patients, and plans have been made for expansion.

Bowden

The Bowden Institution, a few miles from the town of Bowden, has been opened. The construction of several service buildings has been started. Staff houses are being built as required and a neat, small town site is developing adjacent to the No. 2 Highway between Innisfail and Bowden.

Brooks

The Demonstration Farm at Brooks was completed this year. The new Horticultural Station is finished, and structures for seasonal labour, cook-house and living quarters were also erected.

Calgary

The Red Cross Blood Transfusion Building has been completed, officially opened and is presently in use.

The Provincial Training School, Calgary, has had considerable landscaping done and the electrical system and the water supply system extended. The Shops Building has been opened and proven quite successful.

A Warehouse Building for the Alberta Forestry Service has also been completed in this area.

Camrose

The Rosehaven Home at Camrose now has a completely new dormitory. This is the first of several which will be added as the needs arise. This new dormitory has been specifically designed for the requirements of the Rosehaven patients. Large airy day rooms form the central motif, and sleeping and service quarters extend as wings from this single storey modern construction. Plans are being prepared for a new Laundry Building to accommodate the anticipated increase in occupancy.

Drumheller

A new Court House has been designed and contracts let in the City of Drumheller to serve the needs of the Province in this area. A modern air-conditioned Court Room housed in a contemporary brick building will be constructed.

Edmonton

The Aberhart Memorial Sanatorium had its roads, walks, landscaping and area lighting completed, and a root cellar was added to the physical plant at this institution.

At the University Hospital area, special design crews have been working to prepare for a Poliomyelitis Ward extension to the University Hospital. The severe poliomyelitis epidemic of 1953-54 has necessitated this emergency structure. This structure will be in full accord with modern hospital design. Special features are being incorporated for treatment and therapy of this crippling disease. As the new addition will be a six storey annex to the main hospital, considerable thought is being given to the re-arrangement of parking areas, main entrances and the general orientation of this institution.

At the University of Alberta work has gone ahead on the Agriculture Building, and this fine structure is slated for completion for the 1954-55 Fall term.

At the University of Alberta Agricultural Farm a milk-house, a dairy barn and a grain drying shed have been added to the general farm plant.

The University of Alberta Extension Department at Banff ever since its inception has been in need of an Administration Building. Work has gone ahead on this building for some time, and this noteworthy addition to the Banff School has been completed during this fiscal year.

The Department of Public Works has moved to its new quarters in a recently erected building on the North bank of the North Saskatchewan River on the Legislative Grounds. This new edifice also contains the Government Garage and service organizations of the Public Works Department.

Renovation and enlargement of the Edmonton Court House is continuing and this building is to be ready for occupancy in early 1954.

The Blood Transfusion Service Building for the Red Cross has been completed this year, and is now in service.

A new addition to the Cancer Clinic has been constructed to house the "cobalt bomb" donated to the Province by private individuals for the treatment of cancer. This building is a complete concrete structure with walls 4 feet thick to prevent any stray radiation.

The Alberta Block has been purchased and will be re-modelled to accommodate several Government departments. This renovation is to be completed in the summer of 1954.

Fairview

The Department of Agriculture School at Fairview had a group of service buildings erected and completed. These included such items as a fire-fighting equipment shed, root cellar, store room and maintenance shed, and the landscaping of roads, etc. were completed to the usual fine standards of the other Agricultural Schools.

Fort Saskatchewan

Because of the enlargement of this Institution new services have been required. This year a new Power House and electrical conversions have been completed.

Keith

Considerable renovation and modernization has taken place at the Baker Memorial Sanatorium at Keith, Alberta. An addition to the Laundry Building, two new dwellings, an annex to the Nurses' Home, extension of the sewer and water lines, and a new electrical switchboard, have all contributed to the general modernization and enlargement of this Sanatorium. The new male staff building, with a capacity for 50 men, has been completed and is now occupied.

Oliver

The Provincial Mental Institute has had several modern buildings added to assist in the proper functioning of this Institution. The Administration Building of native structure has been completed and is now occupied. The new Nurses' Home has been completed, and is now in full use. Several new service buildings and houses have been built for the farm group. Excavation has begun for a new Admission Hospital and major construction is planned in the 1954-55 year and occupancy is scheduled for 1955.

Ponoka

In accordance with long term planning another dormitory, of 100 bed capacity, has been erected. Considerable renovation has taken place in the Power House, and alterations are continuing in the kitchen and other service buildings.

Red Deer

The Provincial Training School in Red Deer, Alberta, has had several new functional buildings added to the Institute. A Vocational Therapy Building, staff buildings and a new ward of cottage style have been completed. Surveys have gone ahead for a new Institution for mental defectives in this area.

Stettler

Contracts have been let for a new Provincial Building in the town of Stettler. This building will be built to the same standards as other Provincial Buildings such as those in Grande Prairie, Peace River and Drumheller. To accommodate all Provincial departments in Stettler this building will contain the Liquor Store, the Treasury Branch, and offices of the Departments of Highways and Agriculture.

Other Centres

The Petroleum and Natural Gas Conservation Board has requested and obtained buildings in Camrose and Stettler.

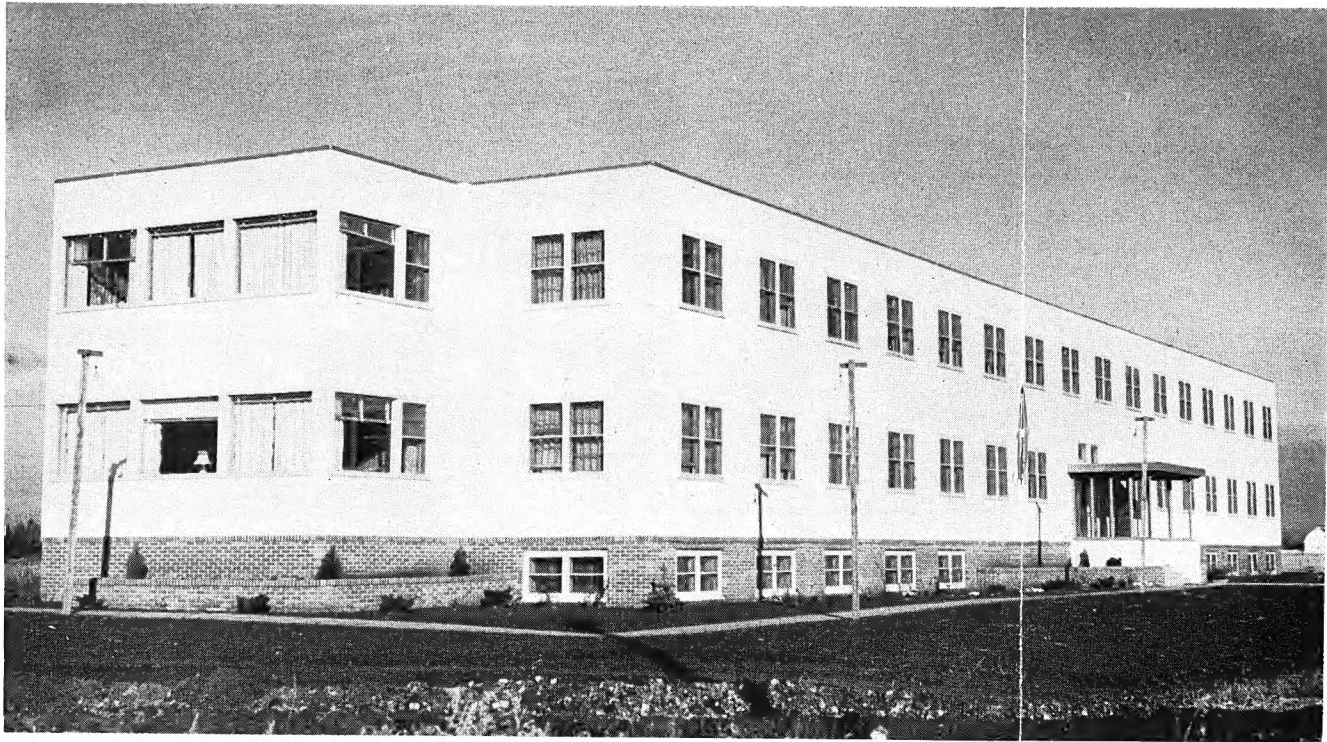
The Highways Department has requested and obtained Highways Maintenance Shops at Two Hills, Czar, Wainwright, Killam, Bonnyville, Rycroft and Stettler.



Public Works Building



Nurses' Aid Training School, Calgary



Nurses' Home, C



Shops Building, Calgary



Nurses' Home, Oliver



Shops Building, Calgary



Residences at Baker Sanatorium, Calgary



Alberta Block

At the Tourist Reception Building in Macleod roadways and landscaping have been completed.

The Provincial Gaol at Lethbridge has had its Power Plant renovated and new staff cottages completed.

BUILDINGS AND MAINTENANCE BRANCH

Expenditure for 1953-54

INCOME EXPENDITURE

708	\$ 131,066.40
709	1,714,105.15
710	438,225.68

CAPITAL EXPENDITURE

756	\$ 692,619.28
759	5,652,385.52
S.W. 30/53-54	
Addition to Civil Defence Building, Edmonton	79,999.97

MECHANICAL BRANCH

Report for Fiscal Year ended March 31st, 1954

F. E. Coe, Mechanical Superintendent

This report deals with the maintenance and operation of Government power plants and the maintenance and supply of utility services of the eight larger Provincial institutions.

Again, as in previous years, the power plant statistics show that the output of the plants has increased. This is noticeable in the increased fuel consumption, power output and consumption and water requirements all due to the addition of new buildings and equipment installed at the various institutions.

Provincial Gaol, Fort Saskatchewan

Installation of equipment in the new power plant has proceeded satisfactorily. The necessity of maintaining continual heating and other services to the Gaol during the winter months has precluded putting the new plant into actual operation before March 31st. We anticipate it will be in operation by the first week of July 1954.

Provincial Institute of Technology, Calgary

Completion of rewind of the 150 KVA Canadian General Electric Company generator and installation of new switchboard equipment, the latter by the Buildings Branch, has permitted our putting this unit back into full operation.

Provincial Mental Institute, Oliver

The addition to the sewage disposal plant has been completed and all equipment installed and it is now in operation. A 625 KVA Belliss and Morcom engine-generator unit complete with piping and accessories owned by the Cadomin Coal Company was purchased during the year and is now being installed in the Oliver plant. This unit raises the total electrical generating capacity of the plant to 2,000 KVA which should be sufficient to take care of the requirements of the institution for some years. A new engine room is being built over the old structure, a switchboard room added and a new switchboard is being installed, all by the Buildings Branch. This work will probably be completed prior to March 31, 1955.

Parliament Buildings Power Plant, Edmonton

Installation of the new 1,000 KVA Skinner Vertical Unaflo engine-generator unit and the new switchboard has been completed and is now in operation.

Provincial Mental Hospital, Ponoka

Installation of the new 1,000 KVA Skinner Vertical Unaflo engine-generator units purchased for the plant is nearing completion. One unit is operating and in an emergency both could be used. At the Farm Dormitory we have completed installation of propane gas fuel supply tanks and firing equipment for the boilers as stand-by in the event of failure of the natural gas supply.

Provincial Training School, Red Deer

Installation of the new 10,500#/hr. Foster Wheeler Boiler is nearing completion. The steam requirements of the institution have however necessitated operation of the boiler at part load during the past winter months. Installation of additional switch-board panels and electrical apparatus has been completed and put into service.

Baker Memorial Sanatorium, Keith

Following the untimely death of Engineer, James P. Sargent by accident July 19, 1953 and loss of the Skinner Unaflo engine-generator unit due to overspeed and "explosion" of the engine fly-wheel, a replacement 210 KVA Belliss and Morcom engine-generator unit was placed on order. Delivery of the unit is anticipated in time to have it installed for 1954-55 winter operation. In the meantime an emergency power supply hook-up with the City of Calgary has been completed in the event of outage of the remaining plant generating unit. Temporary installation of a new switchboard by the Buildings Branch has been made and is in operation.

Provincial Gaol, Lethbridge

The new John Inglis 5,000#/hr. water tube boiler replacing one of the old 89 h.p., H. R. T. boilers has been installed and placed in service. A similar type 5,000#/hr. Vickers-Keeler boiler has been moved from the old plant at the Provincial Training School, Red Deer, and is now being installed at the Gaol. It replaces No. 2 old H. R. T. boiler and should be in operation by mid-summer 1954.

F. E. COE,

Mechanical Superintendent.

PROVINCIAL GOVERNMENT POWER PLANT STATISTICS

FOR YEAR ENDED MARCH 31, 1954

(F. E. Coe, Mechanical Superintendent)

LOCATION	FUEL		WATER		ELECTRICITY		
	Coal (tons)	Gas (cu. ft.)	Pumped from Local Sources (Imperial gallon)	Purchased	Generated	Purchased	Expenditure for Maintenance and Operation
Parliament Buildings and Administration Buildings, Edmonton		100,771,000		19,882,048	1,231,100	2,587,600	\$ 85,345.86
Institute of Technology, Calgary		34,916,000		10,418,429	98,300	407,800	32,562.91
Provincial Mental Hospital, Ponoka	106	219,044,000	68,038,000		2,092,400		152,705.08
Provincial Gaol, Fort Saskatchewan	4,526	1,212,000	8,920,000	7,379,800	346,730	95,500	53,235.40
Provincial Gaol, Lethbridge		45,649,000	10,148,000	23,871,248	128,647		43,627.17
Provincial Mental Institute, Oliver	6	200,582,000		57,404,256	1,938,000		132,851.74
Baker Memorial Sanatorium, Keith		69,330,000	31,865,800		504,610		63,706.62
Provincial Training School, Red Deer	107	72,744,000		18,971,125	544,675	240	52,885.72
	<u>4,745</u>	<u>744,248,000</u>	<u>118,971,800</u>	<u>137,926,906</u>	<u>6,884,462</u>	<u>3,091,140</u>	<u>\$616,920.50</u>

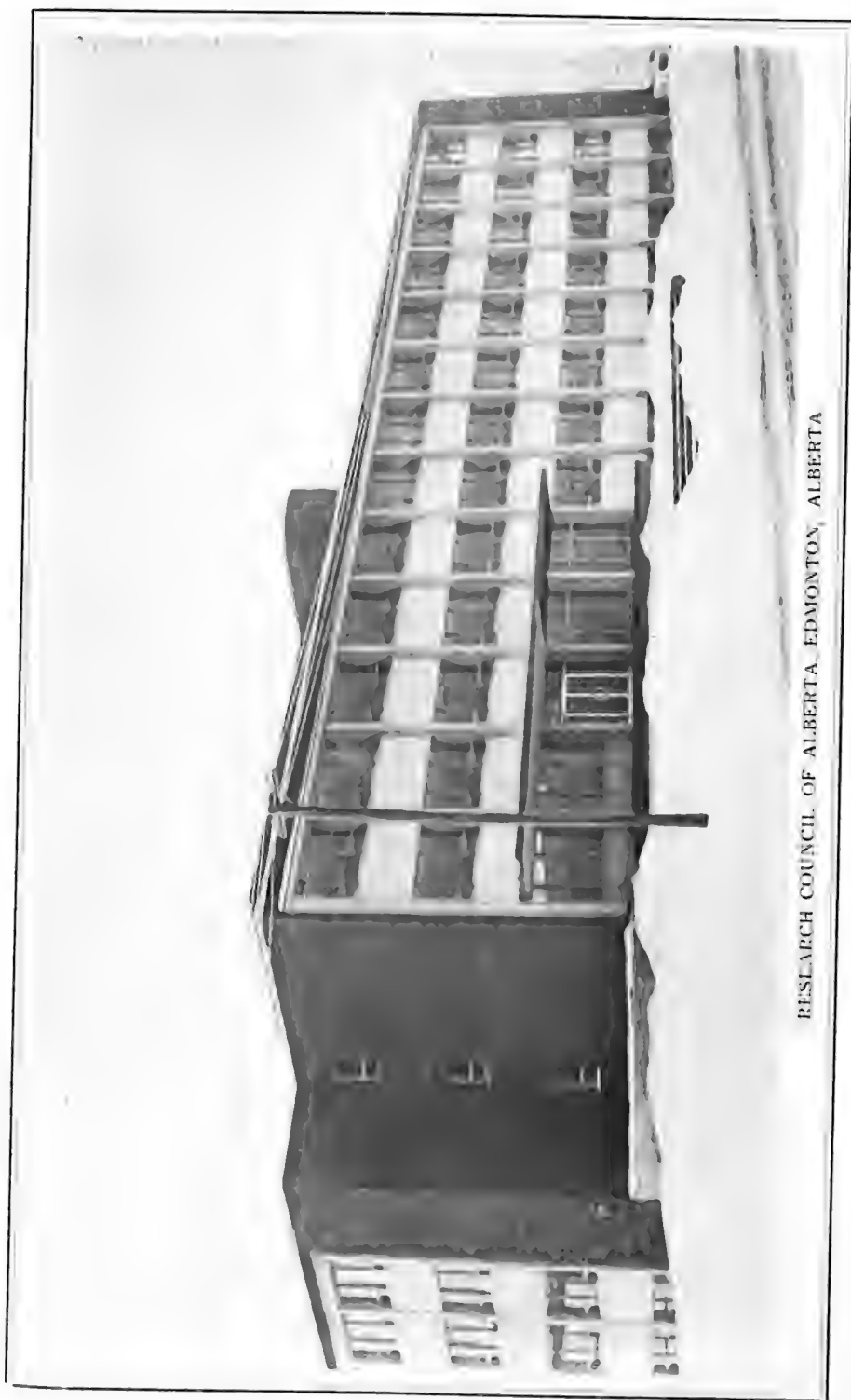
Total Coal Used	7,745 Tons
Total Gas Used	744,248,000 Cubic Feet
Total Water Used	256,898,706 Imperial Gallons
Total Electricity Used	9,975,602 Kilowatt Hours

STATISTICS ON CAPITAL EXPENDITURES, PROVINCIAL GOVERNMENT POWER PLANTS

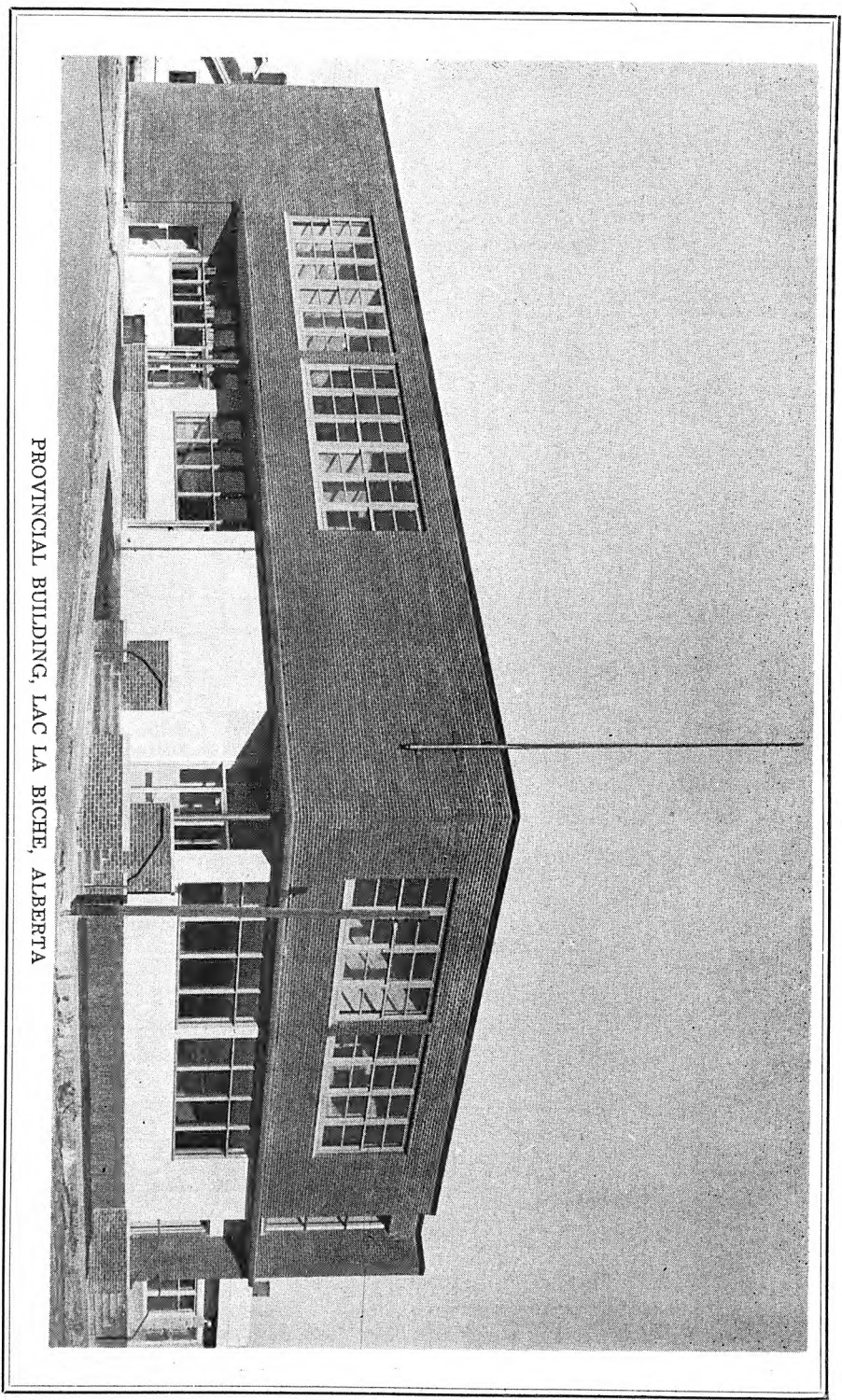
FOR YEAR ENDED MARCH 31, 1954

(F. E. Coe, Mechanical Superintendent)

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RESEARCH COUNCIL OF ALBERTA, EDMONTON, ALBERTA



PROVINCIAL BUILDING, LAC LA BICHE, ALBERTA

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